

IN THE CLAIMS:

Please amend as indicated below.

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered). Thank you
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Please AMEND claims 1, 8, 15, and 25 in accordance with the following:

1. (CURRENTLY AMENDED) A portable computer including a main body and a monitor, in which a planar inverted F antenna (PIFA) is installed, the planar inverted F antenna comprising:
 - a ground plane;
 - a first radiator connected to the ground plane, extending, unsupported in a first direction, spaced from the ground plane, and having a first face,
 - wherein the first face of the first radiator is disposed in parallel to the ground plane; and
 - a second radiator connected to the first radiator, spaced from the first radiator, extending, unsupported, in the first direction, and having an end connected to an antenna cable,
 - wherein the second radiator is approximately perpendicular with the first face of the first radiator.
2. (ORIGINAL) The portable computer according to claim 1, wherein the planar inverted F antenna is installed in an upper part of the monitor.
3. (ORIGINAL) The portable computer according to claim 2, further comprising: a screw engaging the planar inverted F antenna with the upper part of the monitor.
4. (ORIGINAL) The portable computer according to claim 2, wherein the ground plane of the planar inverted F antenna is electrically grounded on a metal part of the upper part of the monitor.
5. (ORIGINAL) The portable computer according to claim 4, wherein the monitor comprises:
 - an opening/closing part with a casing,
 - wherein the first radiator and the second radiator are respectively provided in the casing of the opening/closing part of the monitor.

6. (PREVIOUSLY PRESENTED) The portable computer according to claim 1, wherein:

frequency bands of the first radiator and the second radiator are changed according to adjustment of at least one of a length of the first radiator, a length of the second radiator, or a gap between the first radiator and the second radiator

7. (CANCELLED)

8. (CURRENTLY AMENDED) A planar inverted F antenna installed in a monitor of a portable computer, comprising:

a ground plane;

a first radiator connected to the ground plane and extending unsupported in a first direction, with a predetermined separation from the ground plane, and a primary face substantially parallel to the ground plane;

a second radiator connected at a first end thereof to the first radiator and extending, unsupported, in the first direction, and the second radiator is substantially perpendicular to the primary face of the first radiator; and

an antenna cable connected to a second end of the second radiator

9. (ORIGINAL) The antenna according to claim 8, wherein:
the antenna operates in more than two frequency bands.

10. (ORIGINAL) The antenna according to claim 8, wherein:
the first and second radiators are substantially parallel.

11. (CANCELLED)

12. (PREVIOUSLY PRESENTED) The antenna according to claim 8, wherein:
the ground plane, the first radiator, and the second radiator are integrally formed of a single piece of material.

13. (PREVIOUSLY PRESENTED) The antenna according to claim 8, wherein:
the frequency bands of the antenna are adjusted by adjusting at least one of a length of the first radiator, a length of the second radiator, or a gap between the first and second radiators.

14. (ORIGINAL) The antenna according to claim 8, further comprising:
an engaging part, with which to mount the antenna.
15. (CURRENTLY AMENDED) A portable computer, comprising:
a main body;
a monitor; and
a planar inverted F antenna installed in the monitor, the antenna having
a ground plane,
a first radiator connected to the ground plane extending unsupported in a first direction,
with a predetermined separation from the ground plane, and a primary face substantially parallel
to the ground plane,
a second radiator connected at a first end thereof to the first radiator extending
unsupported in the first direction,
wherein the second radiator is substantially perpendicular to the primary face of
the first radiator, and
an antenna cable connected to a second end of the second radiator.
16. (ORIGINAL) The portable computer according to claim 15, wherein:
the antenna operates in more than two frequency bands.
17. (CANCELLED)
18. (CANCELLED)
19. (ORIGINAL) The portable computer according to claim 15, wherein:
the ground plane, the first radiator, and the second radiator are integrally formed.
20. (ORIGINAL) The portable computer according to claim 15, wherein:
the frequency bands of the antenna are adjusted by adjusting at least one of a length of
the first radiator, a length of the second radiator, and a gap between the first and second
radiators.
21. (ORIGINAL) The portable computer according to claim 15, wherein the antenna
comprises an engaging part to mount the antenna to the monitor.
22. (PREVIOUSLY PRESENTED) The portable computer according to claim 21,

wherein:

the engaging part has an opening, through which a fastener passes to mount the antenna to the monitor.

23. (ORIGINAL) The portable computer according to claim 15, wherein:
the monitor comprises a metal part; and
the ground plane is electrically grounded by contacting the metal part.

24. (ORIGINAL) The portable computer according to claim 15, further comprising:
a latch part to open and close the monitor with respect to the main body,
wherein the antenna is installed in the latch part.

25. (CURRENTLY AMENDED) A portable computer, comprising:
a main body;
a monitor; and
a planar inverted F antenna installed in the monitor, the antenna having
a ground plane;
a first radiator, having a first face, connected to the ground plane and extending
~~unsupported~~ in a first direction, with a predetermined separation from the ground plane,
wherein the first face of the first radiator is approximately parallel to the ground plane;
a second radiator connected at a first end thereof to the first radiator and
extending, unsupported, in the first direction,
wherein the second radiator is approximately perpendicular with the first face of
the first radiator; and
an antenna cable connected to a second, free end of the second radiator

26. (PREVIOUSLY PRESENTED) A portable computer comprising:
a main body;
a monitor; and
a planar inverted F antenna installed in the monitor, the antenna having
a ground plane;
a first radiator
connected to the ground plane,
extending, unsupported, in a first direction, and
having a primary face approximately parallel to the ground plane;
a second radiator

connected at a first end thereof to the first radiator
extending, unsupported, in the first direction, and
having a primary face approximately perpendicular to the primary face of
the first radiator; and
an antenna cable connected to a second end of the second radiator